

INCH-POUND

MIL-DTL-27072/48B
8 December 2000
SUPERSEDING
MIL-C-27072/48A
24 September 1987

DETAIL SPECIFICATION SHEET

CABLE, SPECIAL PURPOSE, ELECTRICAL, MULTICONDUCTOR
(3 CONDUCTORS) AND SINGLE SHIELDED,
M27072/48JDDD*

This specification is approved for use by all Departments
and Agencies of the Department of Defense.

The requirements for acquiring the product described herein shall consist of this specification sheet and MIL-DTL-27072C.

REQUIREMENTS:

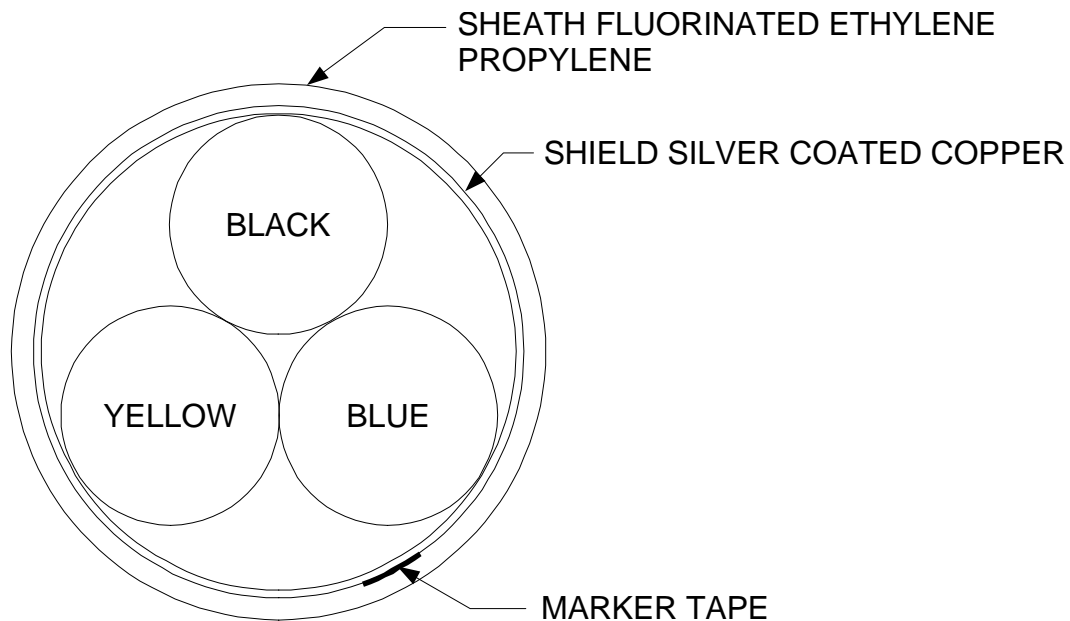


FIGURE 1. Cable configuration.

*The complete part number requires a color code designator (see table I).

MIL-DTL-27072/48B

Design and construction:	See figure 1
Number of conductors:	3
Temperature rating:	200 °C
Components:	
Basic wire:	M22759/11-20* or NEMA HP3-EWBGE* (formerly M16878/21BGE***)(See table I.)
Conductor:	Silver coated copper
Primary insulation:	Polytetrafluoroethylene
Colors:	Black Blue Yellow
Jacket over Insulation:	Not applicable
Filler:	Not applicable
Lay	Not applicable
Cabling:	Not applicable
Binder tape material:	Not applicable
Shield:	Silver coated copper
Braid angle:	20 to 40 degrees
Jacket undershield:	Not applicable
Sheath:	
Material:	Fluorinated ethylene propylene
Wall thickness:	.014 inch nominal
Tensile strength:	In accordance with table V of MIL-DTL-27072
Ultimate elongation:	In accordance with table V of MIL-DTL-27072
Accelerated aging:	Not applicable
Color:	See table IV of MIL-DTL-27072
Finished cable:	See table I
Cold bend:	Mandrel size in accordance with table XIII of MIL-DTL-27072
Dielectric withstanding voltage:	2,000 V rms
Conductor resistance:	In accordance with basic wire specification

Table I. Construction data.

PIN 27072/48	Basic wire except color(reference) M22759/11-20* ^{1/} or NEMA HP3-EWBGE*				Finished cable diameter (in.) ±10%
	Wire size (AWG)	Number of strands	Strand size	Nominal diameter (inch)	
JDDD	20	19	32	.058	.170

NOTE: ^{1/} MIL-W-22759/11-20* color code is in accordance with MIL-STD-681.
Asterisks (*) shall be replaced by the appropriate color designator.

CHANGES FROM PREVIOUS ISSUE: Marginal notations are not used in this revision to identify changes with respect to the previous issues due to the extensiveness of the changes.

CONCLUDING MATERIAL

Custodians:
Army - CR
Navy - SH
Air Force - 11
DLA - CC

Preparing activity:
DLA - CC
(Project 6145-2262-012)